

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled RF GENERATING SYSTEM WITH FAST LOOP CONTROL, the specification of which:

- is attached hereto.
 was filed on _____ as Application Serial No. _____.
 and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability as defined in Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed: NONE

Prior Foreign Application(s)

Priority Claimed

(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
			<input type="checkbox"/>	<input checked="" type="checkbox"/>

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

60/294,885 (Application Serial No.)	May 31, 2001 (Filing Date)
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I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

(Application Serial No.)	(Filing Date)	None (Status-patented, pending, abandoned)
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Inventor's Signature



Date:

12/18/01

Full name of sole or first inventor

Neil Benjamin

Residence

East Palo Alto, California

Citizenship

British

Post Office Address

216 Green Street, East Palo Alto, CA 94303

BRINKS HOFER GILSON & LIONE

One Indiana Square, Suite 2425

Indianapolis, Indiana 46204

(317) 636-0886

Inventor(s): Neil BenjaminTitle: RF GENERATING SYSTEM WITH FAST LOOP CONTROL**POWER OF ATTORNEY**

The specification of the above-identified patent application:

- is attached hereto
 was filed on _____ as application Serial No. _____

I hereby revoke all previously granted powers of attorney in the above-identified patent application and appoint the following attorneys to prosecute said patent application and to transact all business in the Patent and Trademark Office connected therewith:

William A. Webb - 28,277
 Joseph F. Hetz - 41,070
 Kent E. Genin - 37,834
 Jeffrey J. Brooks - 35,834
 Sanders N. Hillis - 45,712
 Lawrence A. Steward - 32,309
 Dean E. McConnell - 44,916

Please address all correspondence and telephone calls to Sanders N. Hillis in care of:

Brinks Hofer Gilson & Lione
 One Indiana Square, Suite 2425
 Indianapolis, Indiana 46204
 (317) 636-0886

The undersigned hereby authorizes the U.S. attorneys named herein to accept and follow instructions from Sanders N. Hillis as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorney and the undersigned. In the event of a change in the persons from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the undersigned.

Lam Research Corporation, a Delaware corporation, certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

- An assignment from the inventor(s) of the patent application identified above, a copy of which is attached hereto.
 OR
 An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, frame _____.
 OR
 A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:

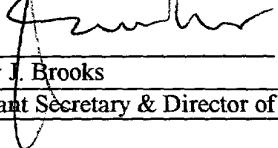
1. From _____ To: _____
 The document was recorded in the Patent and Trademark Office at Reel _____, frame _____, or a copy thereof is attached.
2. From _____ To: _____
 The document was recorded in the Patent and Trademark Office at Reel _____, frame _____, or a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

The undersigned has reviewed the assignment or all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature Date: 15 OCT 01Name: Jeffrey J. BrooksTitle: Assistant Secretary & Director of Intellectual Property

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ASSIGNMENT

WHEREAS, Neil Benjamin, hereinafter called the "Assignor," has made the invention described in the United States patent application entitled RF GENERATING SYSTEM WITH FAST LOOP CONTROL, executed by Assignor on the same date as this Assignment;

WHEREAS, LAM RESEARCH CORPORATION, a corporation organized and existing under the laws of Delaware, having a place of business at 4650 Cushing Parkway, Fremont, California 94538, hereinafter called the "Assignee," desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignor hereby covenants and agrees, for both the Assignor and the Assignor's legal representatives, that the Assignor will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignor will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor has executed this agreement.

DATE:

12/18/01


Neil Benjamin

WITNESSED BY:

Witness #1

Helen Zhu

Printed Name

Helen Zhu

Signature

12-18-01

Date

Witness #2

JEFF FISH

Printed Name

Signature

12/18/01

Date

REV. Nov-98